



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0497/S-96, REVISION 4

East Building, PHH-23
1200 New Jersey Avenue SE
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X.444.
2. Source Description - Cylindrical single or double encapsulation made of Type 316 or 316L stainless steel and tungsten inert gas or laser seal welded. Approximate maximum exterior dimensions are 5.6 mm (0.22 in.) in diameter and 15.0 mm (0.59 in.) in length. Minimum wall thickness is 0.63 mm (0.025 in.). Any inner encapsulation shall be made of stainless steel, aluminum, or titanium. Construction shall be in accordance with attached QSA Global, Inc. Drawing No. R87522, Rev. B.
3. Radioactive Contents - No more than 10.92 TBq (295.0 Ci) of Iridium-192 or Cobalt-60 in solid metal form.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on July 31, 2013.

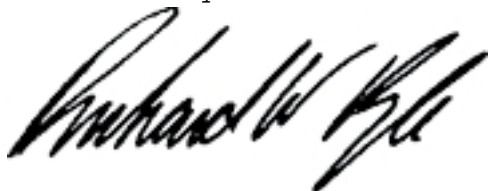
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the July 16, 2008 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



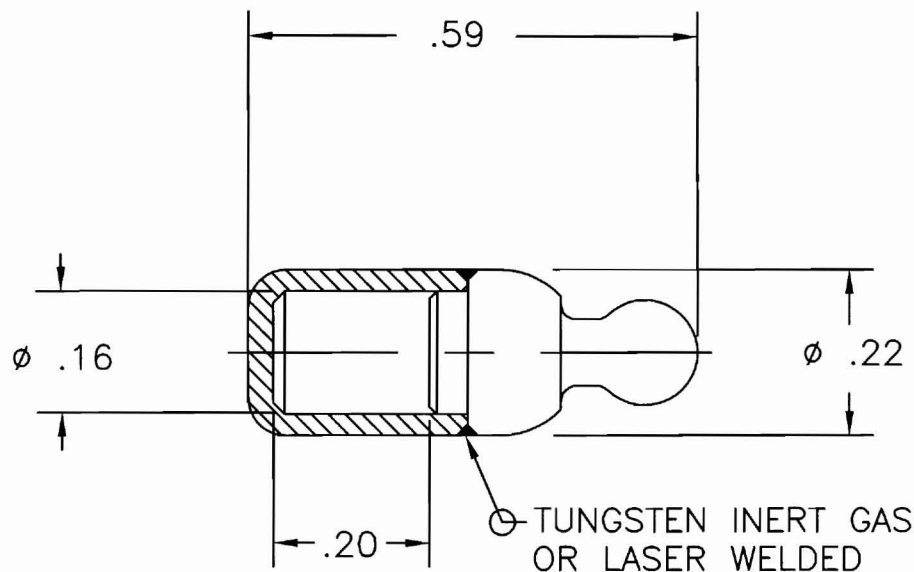
Jul 22 2008

(DATE)

 Robert A. Richard


Deputy Associate Administrator for Hazardous Materials Safety

Revision 4 - Issued to extend the expiration date.



NOTES:

1. INTERNAL VOID TO BE 0.010 mL OR GREATER.
2. MATERIAL: 316L STAINLESS STEEL OR EQUIVALENT.
3. INNER CAVITY DIMENSIONS MAY VARY. METALLIC SPACERS, SPRINGS AND GUARDS WHICH SECURE AND/OR LOCATE THE RADIOACTIVE MATERIAL WITHIN THE CAPSULE MAY BE USED.
4. MINIMUM WALL THICKNESS TO BE 0.025.

<p>ERF # 1739</p>		<p>APPROVALS</p> <p><i>[Signature]</i></p> <p><i>[Signature]</i></p>		<p>DATE</p> <p>7-24-07</p>	<p> QSA GLOBAL</p> <p>40 NORTH AVE, BURLINGTON, MA 01803</p>	<p>DESCRIPTIVE DRAWING</p>		
		<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES:</p> <p>FRACTIONS ± 1/8</p> <p>X.X ± 0.12</p> <p>X.XX ± 0.06</p> <p>X.XXX ± 0.020</p>		<p>TITLE X444 CAPSULE ASSEMBLY</p>				
		<p>SIZE</p> <p>A</p>	<p>DWG. NO. R87522</p>		<p>SCALE: NONE</p>		<p>SHEET 1 OF 1</p>	<p>REV B</p>



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ORIGINAL REGISTRANT(S):

Ms. Lori Podolak
Product Licensing Specialist
QSA Global, Inc.
40 North Avenue
Burlington, MA 01803

Ms. Cathleen Roughan
Director, Regulatory Affairs and QA
QSA Global, Inc.
40 North Avenue
Burlington, MA 01803

Mr. Michael Fuller
Regulatory Compliance Associate
QSA Global, Inc.
40 North Avenue
Burlington, MA 01803